

1997 Silvicultural Activities Report

Compiled from the 1997 Landowner Reports

*Data collected under the provisions of
Title 12 MRSA §8885
July 1998*



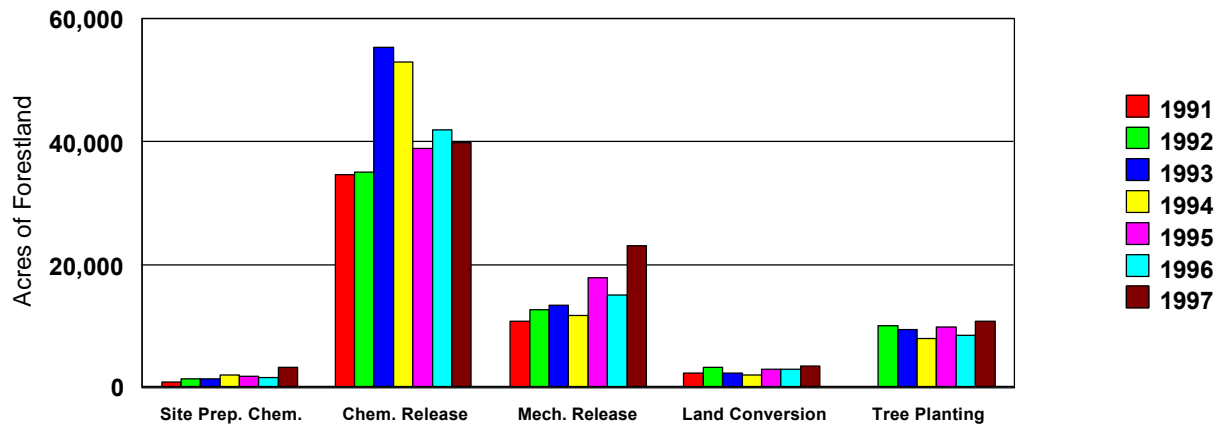
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1997 Report on Silvicultural and Harvesting Practices

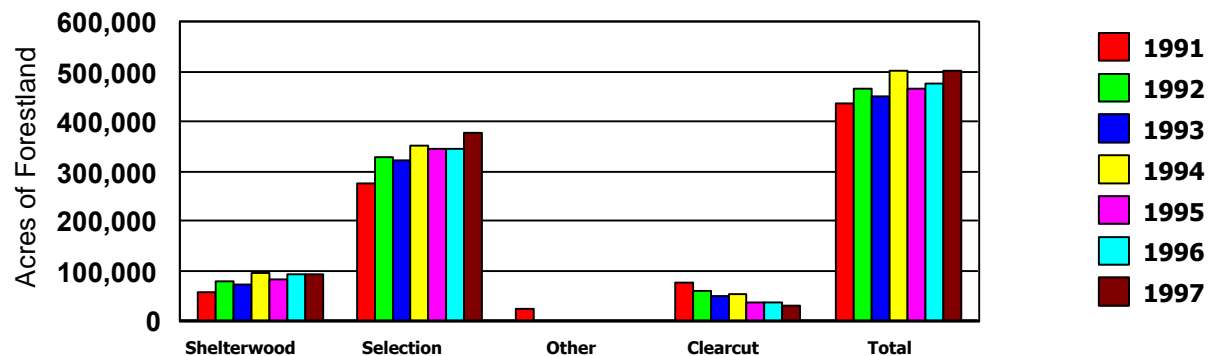
	1997				1996 (Corrected)	
	Acreage class			Total	Total	%change
	1-1000	1001-5000	5000+	1997	1996	1996-1997
Forestland Ownership: Number of Reports						
Forest Industry	21	13	431	465	498	-7%
Private	4,522	195	335	5,052	4,506	12%
Other	34	10	55	99	141	-30%
Total	4,577	218	821	5,616	5,145	9%
Pre-Commercial Activities (acres)						
Timber Stand Improvement (TSI)						
TSI Mechanical	4,364	387	18,331	23,082	15,149	52%
Herbicide Treatments						
Site Preparation	17	72	3,175	3,264	1,443	126%
Release	209	0	39,507	39,716	41,977	-5%
Total	226	72	42,682	42,980	43,420	-1%
	0.53%	0.17%	99.31%	100%		
Tree Planting						
(AS REPORTED ON LANDOWNER REPORTS ONLY)	906	119	9,805	10,830	8,325	30%
Land Use Conversion						
Change to other use	3,008	283	166	3,457	3,081	12%
Harvesting Activities (acres)						
Partial Cut Methods						
Shelterwood cuts	8,922	2,534	82,593	94,049	93,905	0%
Selection cuts	146,348	41,292	191,823	379,463	345,880	10%
Total Acres	155,270	43,826	274,416	473,512	439,785	8%
	33%	9%	58%	100%		
Clearcutting Methods						
Total acres	3,476	588	26,881	30,945	37,509	-17%
	11%	2%	87%	100%		
Total Harvest, by acres						
Total Acres	158,746	44,414	301,297	504,457	477,294	6%
	31%	9%	60%	100%		
Distribution of partial and clearcut, by percentage						
Partial cut methods	98%	99%	91%	94%	92%	
Clearcut methods	2%	1%	9%	6%	8%	
Total	100%	100%	100%	100%	100%	
Forester Supervision (acres)						
Amount of total harvest supervised by Forester	60,330	29,692	282,557	372,579	373,006	
% Forester supervision	38%	67%	94%	74%	79%	

Silvicultural Trends 1997 Silvicultural Report



	Site Prep. Chem.	Chem. Release	Mech. Release	Land Conversion	Tree Planting
1991	895	34,690	10,747	2,155	
1992	1,342	34,962	12,636	3,296	10,109
1993	1,340	55,385	13,385	2,201	9,382
1994	1,950	52,939	11,651	1,944	7,825
1995	1,880	38,926	17,826	2,967	9,695
1996	1,443	41,977	15,109	3,058	8,325
1997	3,264	39,716	23,082	3,457	10,830

Harvesting Trends 1997 Silvicultural Report



Category "other" was eliminated in 1992

	Shelterwood	Selection	Other	Clearcut	Total
1991	56,530	278,141	25,949	76,672	437,292
1992	78,888	328,488		59,602	466,978
1993	75,267	323,476		51,253	449,996
1994	97,654	353,176		53,762	504,592
1995	82,914	345,423		39,295	467,632
1996	93,905	345,880		37,509	477,294
1997	94,049	379,463		30,945	504,457

1997 Silvicultural Activities Report

The information contained in this report represents forest management activities that occurred between January 1 and December 31, 1997 according to forest *landowner reports* filed with the Maine Forest Service (MFS) for 1997.

All landowners who conduct a timber harvesting operation must file an *Intent to Harvest Commercial Forest Products* (notification) before beginning the operation. Following receipt of the notification each landowner is sent a form on which to report their management activities.

Graphs representing forest activities are included with this report. Prior to 1990 landowners were not required to file a notification; therefore, there was a significant under reporting of activities. The information from 1991 onward is more reliable.

Activities in the forest affect everyone. These activities supply resources to build homes, provide furniture, supply paper products, provide wildlife habitat and recreation, and protect valuable soils and clean water.

Highlights

- ☐ The total area harvested increased by 6%, from 477,294 acres in 1996 to 504,457 acres in 1997. The total area clearcut decreased by 17% while partial cuts increased by 8%.
- ☐ The use of herbicides to release competing vegetation decreased from 41,977 acres (in 1996) to 39,716 acres (in 1997) – a decrease of 5%. Herbicide used for site preparation increased by 126% to 3,264 acres.
- ☐ Mechanical thinning – using saws and axes – increased by 52% to 23,082 acres.
- ☐ Land Use Conversion, changing from a forest to some other primary land use, increased 12% to 3,457 acres.
- ☐ Tree planting as reported here, is only from those owners who filed a landowner report. Plantings done on locations where the plantation owner harvested no wood are not required to be reported.

Notes & Definitions

☐ Forestland Ownership

- ◆ **Forest industry.** Land owned by a forest products industry; usually most of the wood harvested is used by that industry.
- ◆ **Private.** Private ownership but NOT by a forest industry. This includes lands of other industries that are not forest industries.
- ◆ **Other.** Lands owned by a government entity -- municipal, county, or state, quasi-public lands, etc.

☐ Timber Stand Improvement. Timber Stand

Improvement (TSI) - "TSI" is pre-commercial thinning or weeding of young stands to improve the growing conditions for the residual crop. In a TSI procedure there are no, or very few, commercial forest products harvested. This report shows the number of acres thinned or weeded using mechanical means (saws, axes, etc.).

☐ Change of (land) Use

Change of land use for a particular area means that following timber harvesting the subsequent use does not include growing *forest products*. Such change of use includes but is not limited to the following: farm pasture, site for growing agricultural crops, residential dwelling unit, development site. The division of forestland into smaller units does not constitute a change of land use.

☐ Forest products

means logs, pulpwood, veneer, boltwood, wood chips, stud wood, poles, pilings, biomass fuelwood, fuelwood or other products commonly known as forest products, but does not include Christmas trees, maple syrup, nursery products used for ornamental purposes, wreaths, bough material, cones or other seed crops.

☐ Types of harvest

- ◆ **Partial harvest.** All harvest systems except clearcut harvest.
 - **Selection system.** A selection cutting system is a method where trees are removed individually or in small groups from a harvest site. Diameter limit harvests (all trees above a certain diameter are harvested) are recorded on this line also.
 - **Shelterwood system.** A shelterwood cutting system is a method of harvesting mature timber from a forest site in two or more stages. The first stage removes only a portion of the trees to allow establishment of regeneration before the remaining trees are removed in subsequent harvests.
- ◆ **Clearcut harvest.** Clear-cut means any timber harvesting on a forested site greater than 5 acres in size which, over a 10 year, period results in an average residual basal area of trees over 6 inches in diameter of less than 30 square feet per acre, unless one or both of the following conditions exist: A. If, after harvesting, the average residual basal area of trees over 1 inch in diameter measured at 4.5 feet above the ground is 30 square feet per acre or more, a clear-cut does not occur until the average residual basal area of trees 6 inches or larger measured at 4.5 feet above the ground is less than 10 square feet per acre; or B. After harvesting, the site has a well-distributed stand of trees at least 5 feet in height, that meets the regeneration standards applicable under 12 MRSA, c. 805, §8869, subsection 1.